PATENT ABSTRACTS OF JAPAN

(11)Publication number : **59-001998**

(43)Date of publication of application : **07.01.1984**

(51)Int.Cl. **F28F 27/00**

B60H 1/08

B60H 1/20

F28D 15/00

(21)Application number : **57-109748**

(22)Date of filing : **28.06.1982**

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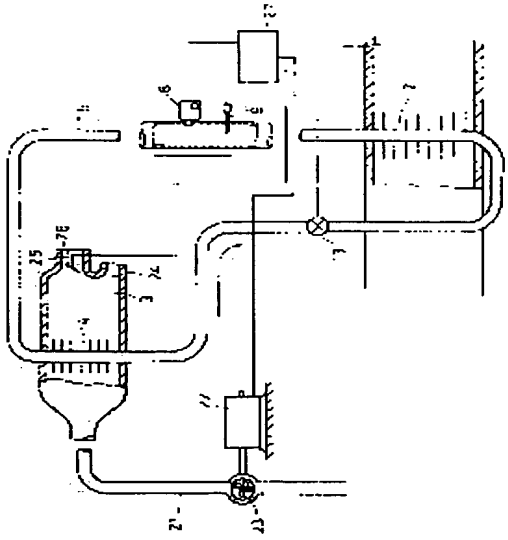
(54) HEAT MEDIUM PRESSURE CONTROL DEVICE FOR WASTE HEAT RESTRIEVING DEVICE



(57)Abstract:

PURPOSE: To restrict the over-rising of the heat medium pressure by a method wherein the heat medium pressure in an enclosed pipeline is detected by a specified means and the flow amount of a heated fluid is controlled based on a signal therefrom.

CONSTITUTION: When a pressure switch 8 or a thermosetting member 9 has detected a phenomenon wherein the amount of heat, retrieved from exhaust gas by a retrieving side heat exchanger 2, is large, a steam pressure in the enclosed pipeline 5 is exceeding a set value and the temperature is increasing to a value higher than a predetermined temperature, a fan 23 is rotated by a controller 27, a normally closed valve 26 is opened and a normally opened solenoid valve 13 is closed. When the solenoid valve 13 is closed, condensed water is reserved at the upstream side of the valve 13, the supply of the condensed water to the heat exchanger 2 is stopped, generation of steam is stopped and the pressure in the enclosed pipeline 5 is reduced. By starting the fan 23 to increase the flow amount of cooling water for a heat demanding part 3, the heat exchanging capacity of the heat transmitting side heat exchanger 4 is increased and the

steam, increased in the pressure thereof, is cooled and condensed to reduce the steam pressure quickly. When the pressure and the temperature of the steam are reduced, the operation of the fan 23 is stopped by the controller 27, the valve 13 is opened, the valve 26 is closed and the heat medium pressure in the enclosed pipeline 5 is regulated and controlled by increasing the pressure and temperature of the steam.